

Dr. Ritesh Patel

Designation: Assistant Professor

Experience: 3 years Research and 2 years Teaching

Educational Qualification: M.Tech., Ph.D. (Applied Physics)

Specialization: Materials Science and Engineering

E-mails ID– ritesh.patel@gperi.ac.in.com

Research

- 1) **Ritesh Patel**, Yuma Ikeda, Hiroshige Onoda, Takeshi Tainosho, Yuki Hisamatsu, Sonia Sharmin, Eiji Kita and Hideto Yanagihara, Magnetic properties of epitaxial barium hexaferrite (0001) thin films deposited by radio frequency magnetron sputtering, IEEE Transaction on magnetics, vol.54, 2 (2018).
- 2) **Ritesh Patel**, Takeshi Tainosho, Yuki Hisamatsu, Sonia Sharmin, Eiji Kita and Hideto Yanagihara, Effect of lattice strain on cobalt ferrite $\text{Co}_{0.75}\text{Fe}_{2.25}\text{O}_4$ (111) thin films, Japanese Journal of Applied Physics, 56, 053001 (2017).
- 3) **Ritesh Patel**, Yuma Ikeda, Sonia Sharmin, Eiji Kita and Hideto Yanagihara, Effect of target composition on the barium hexaferrite (0001) thin films, The 41th Annual Conference on Magnetism in Japan, 21pC-1 (2017).
- 4) **Ritesh Patel**, Yuma Ikeda, Hiroshige Onoda, Takeshi Tainosho, Yuki Hisamatsu, Sonia Sharmin, Eiji Kita and Hideto Yanagihara, Magnetic properties of epitaxial barium hexaferrite (0001) thin films deposited by radio frequency magnetron sputtering, The 28th Magnetic Recording Conference (TMRC), BP-07 (2017).
- 5) Yuma Ikeda, Hiroshige Onoda, **Ritesh Patel**, Preparation and magnetic properties of epitaxial Ba ferrite thin films, Eiji Kita, and Hideto Yanagihara. The 64th JSAP Spring Meeting, 14p-P10-52 (2017).
- 6) **Ritesh Patel**, Takeshi Tainosho, Yuki Hisamatsu, Sonia Sharmin, Hideto Yanagihara and Eiji Kita, Thickness dependence of epitaxially grown cobalt ferrite (111) thin films on sapphire (0001) substrate using RF sputtering, The 63th JSAP Spring Meeting, 21p-H103-5 (2016).
- 7) **Ritesh Patel**, Yuki Hisamatsu, Takeshi Tainosho, Sonia Sharmin, Hideto Yanagihara and Eiji Kita, Epitaxial growth of cobalt ferrite (111) thin films on sapphire (0001) substrate using RF sputtering, The 39th Annual Conference on Magnetism in Japan, 9pC-5 (2015).
- 8) Eiji Kita, Hideto Yanagihara, **Ritesh Patel**, Thin film growth of spinel type ferromagnetic oxides, The 1st [ImPACT] International Symposium on Spintronic Memory, Circuit and Storage (2015).
- 9) Swathi Manda, Annu Saini, Salman Khaleeq, **Ritesh Patel**, Belal Usmani, Seshadri Harinipriya, Barun Pratiher, Bimal Roy, Thermocells of carbon material electrodes and its performance characteristics, Journal of Materials Research and Technology, 2(2), 165–181 (2013).

Professional Contribution

Training Programs/Workshops/Short Term Courses

- 1) National webinar (online mode) on “Quantum Information Processing Scope in VLSI design” held at Department of Electronic and Communication Engineering, IITE, Indus University, from 03 January, 2022.
- 2) International workshop (online mode) on “Emerging Materials for Energy Storage Application” held at Applied Physics department, SVNIT Surat, from 26-30 October, 2020.
- 3) Short course (online mode) on “Analysis and Interpretation of Data resulted from Materials Characterizations” held at Department of Chemical Engineering, Malaviya National Institute of Technology Jaipur from 26-30 October, 2020.
- 4) Short term Training program (TEQIP) (online mode) on “Recent Trends in Optical Engineering” held at Department of Electronic Engineering, SVNIT Surat, from 19-23 October, 2020.
- 5) Short course (GIAN) on “Atomistic simulation of materials” held at Indian Institute of Technology Delhi from 23-27 December, 2019.
- 6) Hands on Training on “X-ray Reflectivity” course of Nanotech CUPAL NIP program 4th term held at National Institute of Materials Science (NIMS), Tsukuba, from 28-30 March, 2016.
- 7) Hands on Training on “Transmission Electron Microscopy” course of Nanotech CUPAL NIP program (1st, 2nd and 3rd term) held at National Institute of Materials Science (NIMS), Tsukuba, Japan.
- 8) Hands on Training on “Mossbauer spectroscopy” course of Nanotech CUPAL NIP program held at University of Tsukuba, Tsukuba, from 11-12 March, 2015.
- 9) Team member for short-term course & International workshop on “Design of sub-systems for concentrated solar power technologies” organized by ICASET, Indian Institute of Technology Jodhpur from 16-22 December, 2013.
- 10) Short course on “Organic electronics and Solar cells” held at Indian Institute of Technology Kanpur from 9-14 July, 2012.
- 11) Team member for workshop on “Solar radiation resources assessment and modelling” organized by ICASET, Indian Institute of Technology Jodhpur from 7-9 August, 2012.
- 12) Advanced Post Graduation diploma in **VLSI Design (six month)** from Semi-Conductor Laboratory (Department of Space, Mohali (Punjab)).

Achievements

- 1) Received MEXT Scholarship (2015-18) as a Doctoral Student in Japan.
- 2) Received MEXT Scholarship (2014-15) as a Research Student in Japan.
- 3) Qualified GATE-2007 with Score 384 (All India Rank-406) in Physics.
- 4) Qualified in OCES/DGFS-2007 held by BARC.
- 5) Selected for the Inter-university east zone Quiz and One-act play competition.
- 6) Selected (thrice) for the Inter-university state Table Tennis competition.
- 7) Winner of Inter School District Quiz Competition.

(Professional Memberships)

- 1) Indian Physics Association (IPA) RAJ/LM/12285.
- 2) Materials Research Society of India (MRSI), LMB1440.
- 3) The Japan Society of Applied Physics (JSAP), 96012, 2015-2018.
- 4) Magnetic Society of Japan (MSJ), 10163, 2015-2018.